

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/15/2018 05/15/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD2095_01_s_2013_14				
Comment Code					
Inspector Comment					
The O&M Manual is available at the office.					

No Photos

LM Start		Rating **	A	Issue No.	17
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD2095_01_s_2013_17				
Comment Code					
Inspector Comment					
The LMA has a current flood fight training and a flood fighting plan.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/15/2018 05/15/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	19		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Emergency Supplies & Equipment				°		°
					°		°
DWR ID	DWR_RD2095_01_s_2013_19						
Comment Code							
Inspector Comment							
Flood fighting supplies available on-site at the warehouse.							

No Photos

LM Start	0.15	Rating **	A/W	Issue No.	10
LM End	0.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.769997 °	37.769997 °
				-121.325055 °	-121.325055 °
DWR ID	DWR_RD2095_01_f_2015_10				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
LMA is actively controlling access. The slope appears to be stable and should be monitored for possible erosion.					

Photo 1 of 1 : SP_2018_RD2095_322_10_20180507_00001.jpg



View of the vehicle tracks on the waterside levee slope.

LM Start	0.78	Rating **	A	Issue No.	5
LM End	1.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.762857 °	37.759172 °
				-121.318371 °	-121.308117 °
DWR ID	DWR_RD2095_01_s_2018_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA is doing an excellent job maintaining their vegetation.					

Photo 1 of 1 : SP_2018_RD2095_322_5_20180516_00015.jpg



View of well-maintained landside slope. Spring 2018.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	0.03	Rating **	C	Issue No.	9
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.758986 °	37.758986 °
				-121.307854 °	-121.307854 °
DWR ID	DWR_RD2095_02_s _ 2013_9				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	0.60	Rating **	M	Issue No.	6
LM End	0.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.751668 °	37.751668 °
				-121.304302 °	-121.304302 °
DWR ID	DWR_RD2095_02_s _ 2012_6				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Small shrub at the edge of the ditch.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	0.97	Rating **	A/W	Issue No.	941
LM End	0.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.749706 °	37.749706 °
				-121.299237 °	-121.299237 °
DWR ID	DWR_RD2095_02_s _ 2012_941				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense bush within 20' of crown on waterside slope.					

No Photos

LM Start	0.98	Rating **	A/W	Issue No.	940
LM End	0.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.749629 °	37.749629 °
				-121.299040 °	-121.299040 °
DWR ID	DWR_RD2095_02_s _ 2012_940				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	1.09	Rating **	N	Issue No.	3
LM End	1.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.748184 °	37.748184 °
				-121.298995 °	-121.298995 °
DWR ID	DWR_RD2095_02_s _ 2012_3				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
4 stumps					

Photo 1 of 1 : SP_2018_RD2095_323_3_20180507_00005.jpg



View of the tree stumps on the landside levee slope..

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.30	Rating **	C	Issue No.	8
LM End	1.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.745343 °	37.745343 °
				-121.297620 °	-121.297620 °
DWR ID	DWR_RD2095_02_f_2012_8				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Two tree stumps.					

No Photos

LM Start	1.35	Rating **	C	Issue No.	195
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.744746 °	37.744746 °
				-121.297695 °	-121.297695 °
DWR ID	DWR_RD2095_02_s_2014_195				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion site repaired February 2017.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.48	Rating **	M	Issue No.	942
LM End	1.48	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.743142 °	37.743142 °
				-121.297692 °	-121.297692 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19863 DS_ID:21642 EP_NO: 4658 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned in place and re-routed to LM 1.652. Need to verify pipe was properly abandoned. Permit FIELD_STRUCT_DESC: *ABANDONED* 14-inch steel drainage pipe through the levee, 3.5 feet below the crown. Pump on structure over drainage ditch on the landside (LS). Flap gate on the waterside (WS) end. (Permit No. 4658, 1964 - Cochran Company, Inc.). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 1.51)]. FS Date: 9/10/2013					

Photo 1 of 1 : UCIP_SP_2018_19863_33760.jpg



Pump visible on LS toe, but pipe has been re-routed to southwest.

LM Start	1.50	Rating **	A/W	Issue No.	12
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.742828 °	37.742828 °
				-121.297532 °	-121.297532 °
DWR ID	DWR_RD2095_02_s_2012_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.74	Rating **	A/W	Issue No.	1
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.740196 °	37.740196 °	
			-121.297662 °	-121.297662 °	

DWR ID RD2095U02RM60.62

Comment Code

Inspector Comment

10/04/2017: The erosion has further expanded toward the levee toe. The berm width has shortened to approximately 14 feet. The erosion also has further lengthened upstream. Vegetation has grown denser at the site.

07/20/2016: The erosion extended toward the levee toe. The berm width was reduced by approximately five (5) feet.

08/04/2015: No significant change observed.

07/02/2014: No significant change observed.

08/28/2013: No significant change observed.

09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.

The site was not visited by boat survey due to the limitation of navigable waterway.

08/23/2011: No significant change observed.

9/22/2010: No significant change observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe.

9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2017 Site ID:RD2095U02RM60.62]

LM Start	1.74	Rating **	A/W	Issue No.	1 (cont)
LM End	1.77	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP_2018_RD2095_323_1_20180507_00001.jpg



Looking at the erosion from downstream.

Photo 2 of 4 : SP_2018_RD2095_323_1_20180507_00002.jpg



Looking at the erosion from upstream.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.74	Rating **	A/W	Issue No.	1 (cont)	
LM End	1.77	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.740196 °	37.740196 °	
				-121.297662 °	-121.297662 °	
DWR ID	RD2095U02RM60.62					

Comment Code

Inspector Comment

10/04/2017: The erosion has further expanded toward the levee toe. The berm width has shortened to approximately 14 feet. The erosion also has further lengthened upstream. Vegetation has grown denser at the site.

07/20/2016: The erosion extended toward the levee toe. The berm width was reduced by approximately five (5) feet.

08/04/2015: No significant change observed.

07/02/2014: No significant change observed.

08/28/2013: No significant change observed.

09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.

The site was not visited by boat survey due to the limitation of navigable waterway.

08/23/2011: No significant change observed.

9/22/2010: No significant change observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe.

9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2017 Site ID:RD2095U02RM60.62]

LM Start	1.74	Rating **	A/W	Issue No.	1 (cont)
LM End	1.77	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP_2018_RD2095_323_1_20180507_00003.jpg



Close view of the erosion.

Photo 4 of 4 : SP_2018_RD2095_323_1_20180507_00004.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.75	Rating **	A/W	Issue No.	15
LM End	1.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.740196 °	37.738880 °
				-121.297662 °	-121.298260 °
DWR ID	DWR_RD2095_02_f _ 2017_15				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Active waterside erosion on san joaquin river near the end of Wright Road in Tracy, CA. Total length of erosion extends 615. Erosion has extended 15 feet towards levee toe this flood season. Pleasee see attached map and photots. As the high water level receds from the winter storm, we can see more damage to this stie. Erosion is active.					
Site ID No:469					
Site Designation:LMA-296					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/26/2017					
Notes: This is an active erosion site. Zero vegetation within the eroded portion. It may not be quite in the prism now, but lost about 20 ft (horizontally) of bank last year. Saw eddies in the water here also.					

LM Start	1.75	Rating **	A/W	Issue No.	15 (cont)
LM End	1.84	Issue Type +	Ma	Location *	

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

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Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.75	Rating **	A/W	Issue No.	15 (cont)
LM End	1.84	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		37.740196 °	37.738880 °	
			-121.297662 °	-121.298260 °	
DWR ID	DWR_RD2095_02_f_2017_15				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Active waterside erosion on San Joaquin River near the end of Wright Road in Tracy, CA. Total length of erosion extends 615. Erosion has extended 15 feet towards levee toe this flood season. Please see attached map and photos. As the high water level recedes from the winter storm, we can see more damage to this site. Erosion is active.</p> <p>Site ID No: 469</p> <p>Site Designation: LMA-296</p> <p>Repair Type: Erosion</p> <p>Rating: Serious</p> <p>Field Date: 7/26/2017</p> <p>Notes: This is an active erosion site. Zero vegetation within the eroded portion. It may not be quite in the prism now, but lost about 20 ft (horizontally) of bank last year. Saw eddies in the water here also.</p>					

Photo 3 of 3 : LEVAL_SP_2018_469_2353.jpg



LM Start	2.09	Rating **	C	Issue No.	19
LM End	2.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.735276 °	37.735276 °	
			-121.297777 °	-121.297777 °	
DWR ID	DWR_RD2095_02_f_2016_19				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Area needs to be monitored for possible further erosion.					

No Photos

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LM Start	2.12	Rating **	A/W	Issue No.	20
LM End	2.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.734858 °	37.734858 °
				-121.297758 °	-121.297758 °
DWR ID	DWR_RD2095_02_s_2012_20				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	2.38	Rating **	A/W	Issue No.	945
LM End	2.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.731313 °	37.731313 °
				-121.298298 °	-121.298298 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19871 DS_ID:21644 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 8-inch steel drainage pipe through the levee, 3 feet below the crown. Pump in drainage ditch on the landside (LS). Vent pipe at the waterside (WS) toe. 1.5-inch galvanized iron electrical conduit through the levee at the same location. Service pole with a switch box and meter on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 2.41)]. FS Date: 9/10/2013					

Photo 1 of 2 : UCIP_SP_2018_19871_33778.jpg



Pump on metal pier off LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	2.38	Rating **	A/W	Issue No.	945 (cont)	
LM End	2.38	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.731313 °		37.731313 °
				-121.298298 °		-121.298298 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19871 DS_ID:21644 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 8-inch steel drainage pipe through the levee, 3 feet below the crown. Pump in drainage ditch on the landside (LS). Vent pipe at the waterside (WS) toe. 1.5-inch galvanized iron electrical conduit through the levee at the same location. Service pole with a switch box and meter on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 2.41)]. FS Date: 9/10/2013						

Photo 2 of 2 : UCIP_SP_2018_19871_33777.jpg



Vent standpipe on WS toe.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement